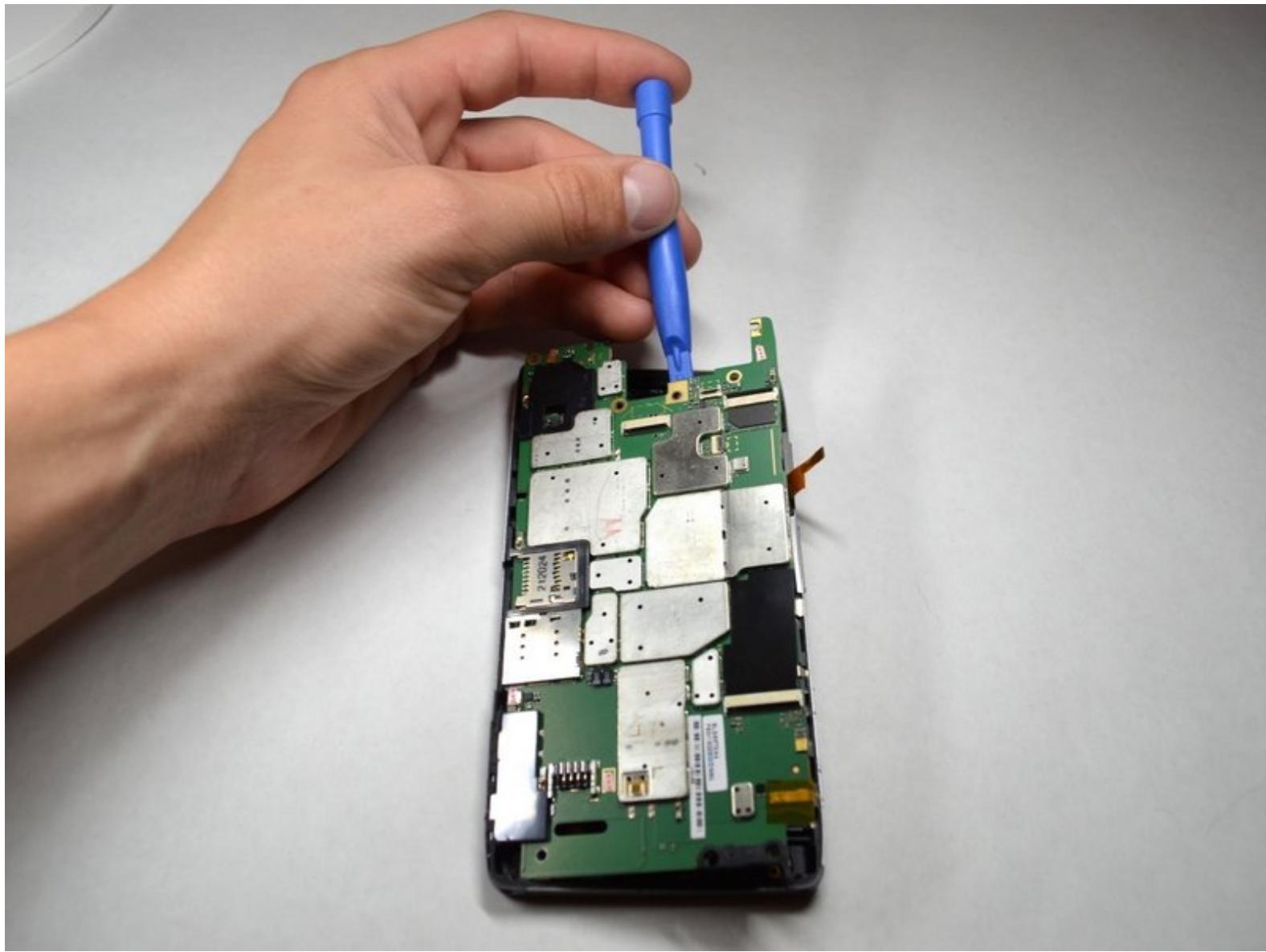




# Motorola Droid RAZR HD Motherboard Replacement

A guide to replacing the motherboard on the Motorola Droid RAZR HD.

Written By: Blake Nielsen



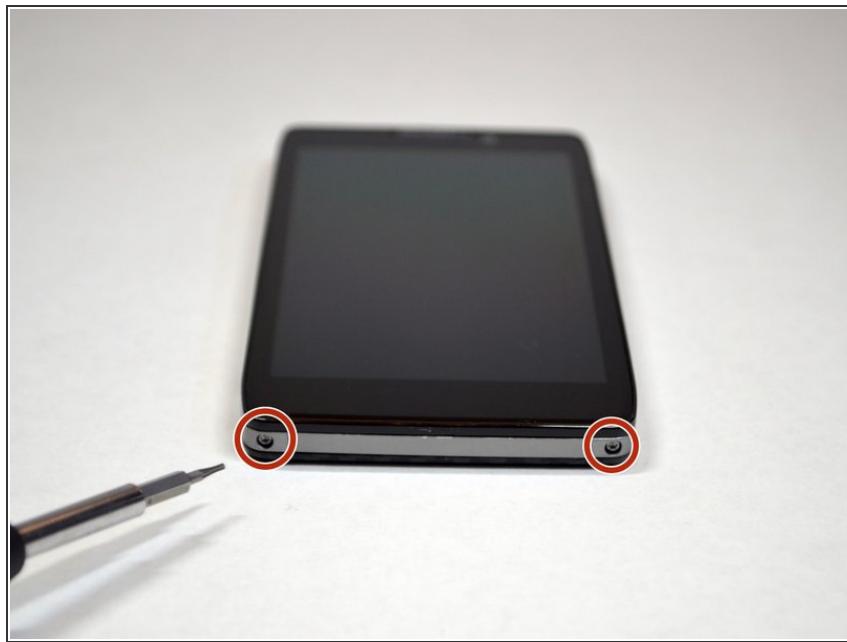
## INTRODUCTION

After attempting every possible repair, your phone still doesn't function correctly. This suggests that the issue is the motherboard, but with this guide, even this component can be replaced.

### TOOLS:

- [T4 Torx Screwdriver](#) (1)
- [Tweezers](#) (1)
- [SIM Card Eject Tool](#) (1)
- [iFixit Opening Tools](#) (1)

## Step 1 — Front Panel Assembly



**⚠** Power off the device before disassembly to avoid damage or harm from electrical surges.

- Remove the two 4.5mm screws in the bottom left and right corners of the device using a T4 Torx Screwdriver.

## Step 2



- Holding the device in your hand, push the screen towards the top of the phone until it disconnects from the base of the phone.

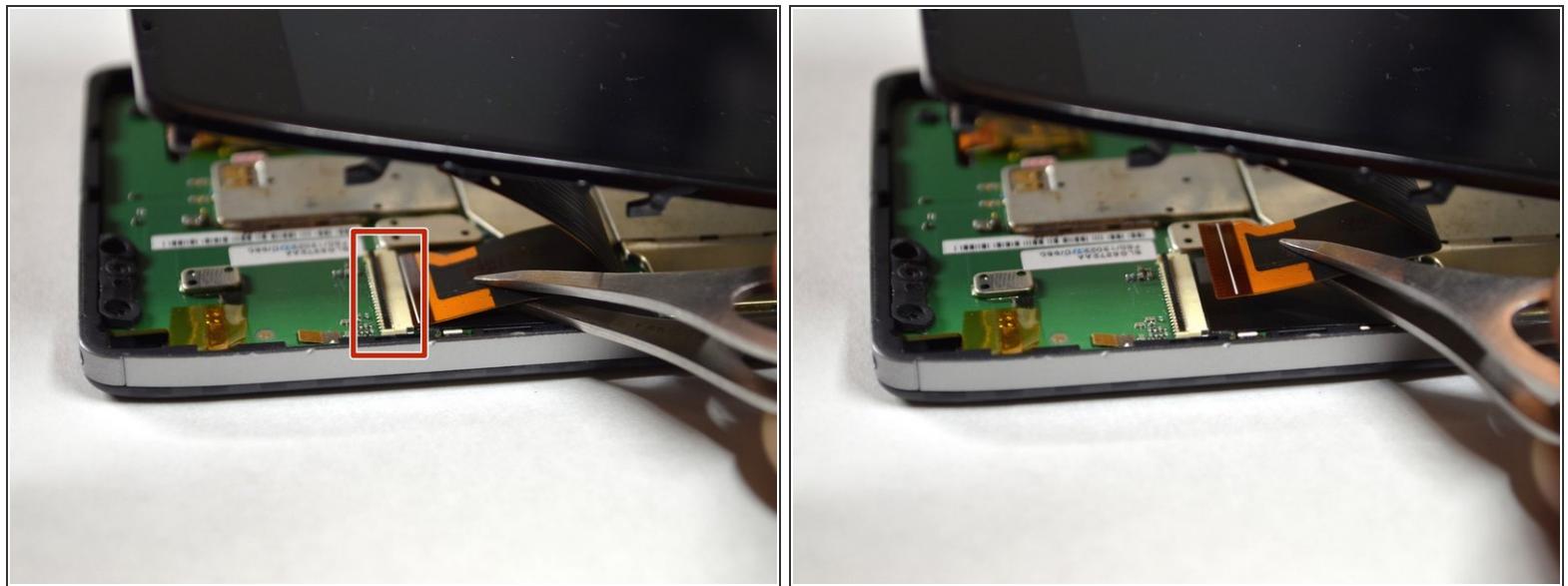
## Step 3



- Use a plastic opening tool to lift the screen from the phone.

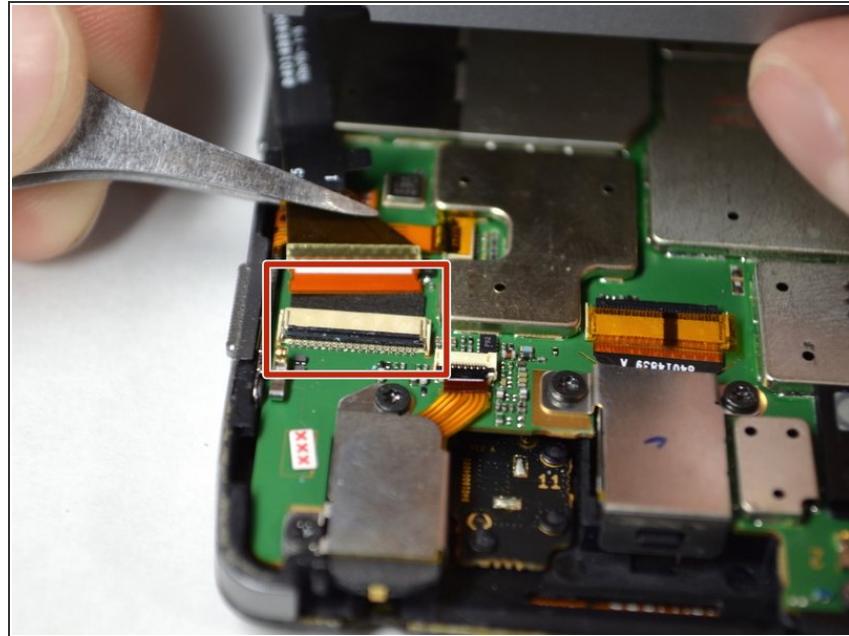
**⚠** Do not try to completely detach the screen; cables are still connected to the device and can be damaged.

## Step 4



- Use tweezers to remove the yellow tape covering the lcd/digitizer cable connector.
  - Carefully lift up the black locking tab to release the lcd/digitizer cable.
- i** The cable connector is located on the bottom right section of the phone.

## Step 5



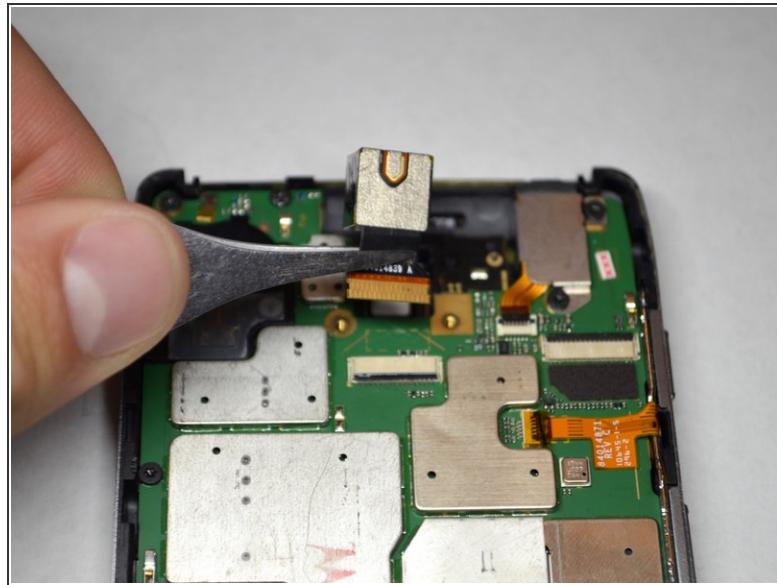
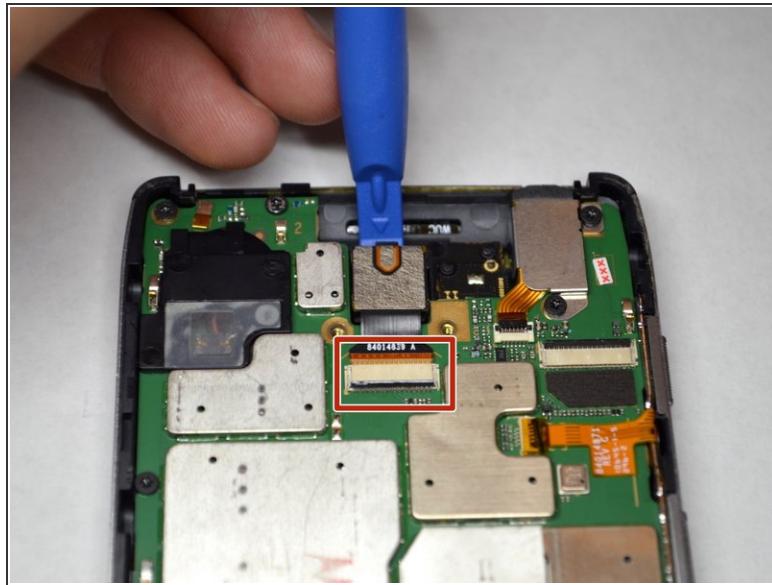
- Lift up the screen further to reveal another cable at the top of the device connecting the motherboard to the screen.
- *(i)* This connector is located on the top right section of the phone.
- Use tweezers to lift the black bar on top of the ZIF connector.
- Pull the ribbon cable out of the connector with tweezers.
- Now that there are no cables connecting the screen to the motherboard, remove the screen.

## Step 6 — Rear Facing Camera



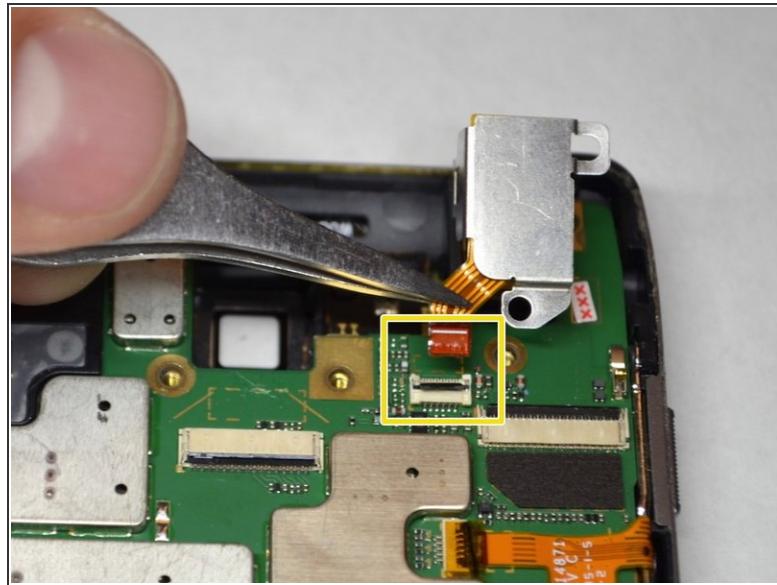
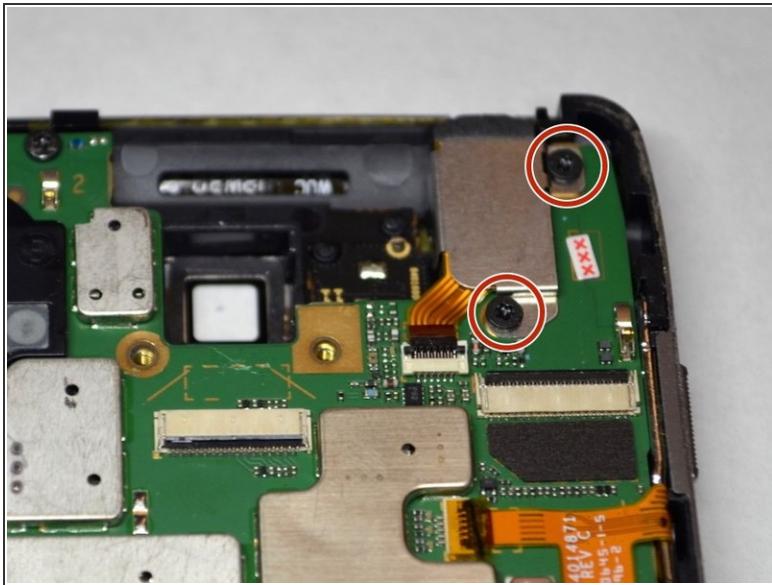
- Remove the two 3.5mm Torx T4 screws securing the rear facing camera.
- Using tweezers, remove the metal shield protecting the rear facing camera.

## Step 7



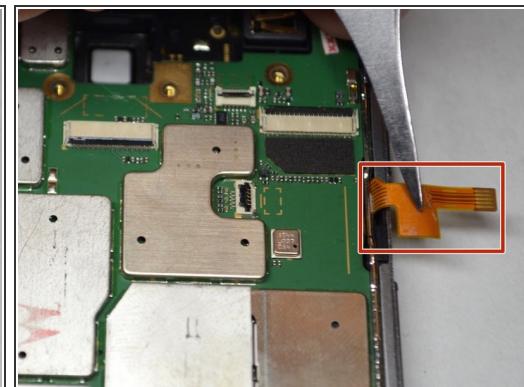
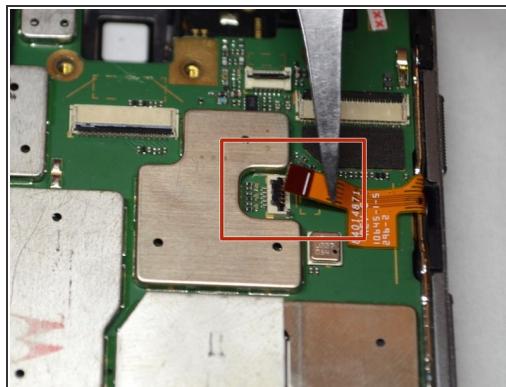
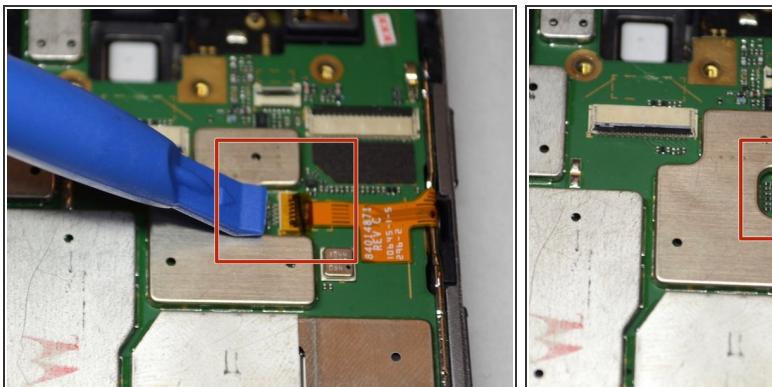
- Use a plastic opening tool to lift up the rear camera.
  - Use tweezers to lift and unlock the black bar on top of the rear camera's ZIF connector.
  - Pull the camera out of the connector.
- (i)* You will need to unplug the rear camera from its connector on the motherboard.

## Step 8 — Motherboard



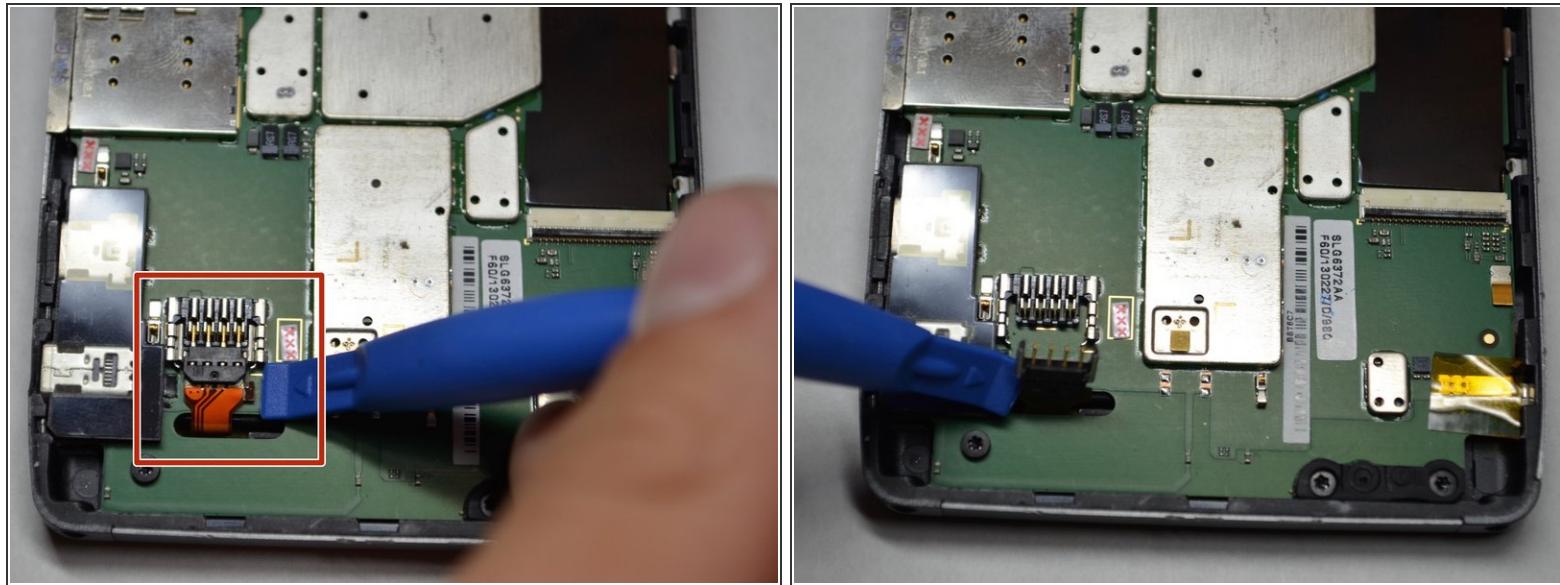
- Remove the two 3.5mm Torx T4 screws securing the headphone jack cable/cover.
- Using tweezers, disconnect the headphone jack cable/cover and remove it. The headphone jack will stay where it is.
- *(i)* The metal shield is attached to the headphone jack.

## Step 9



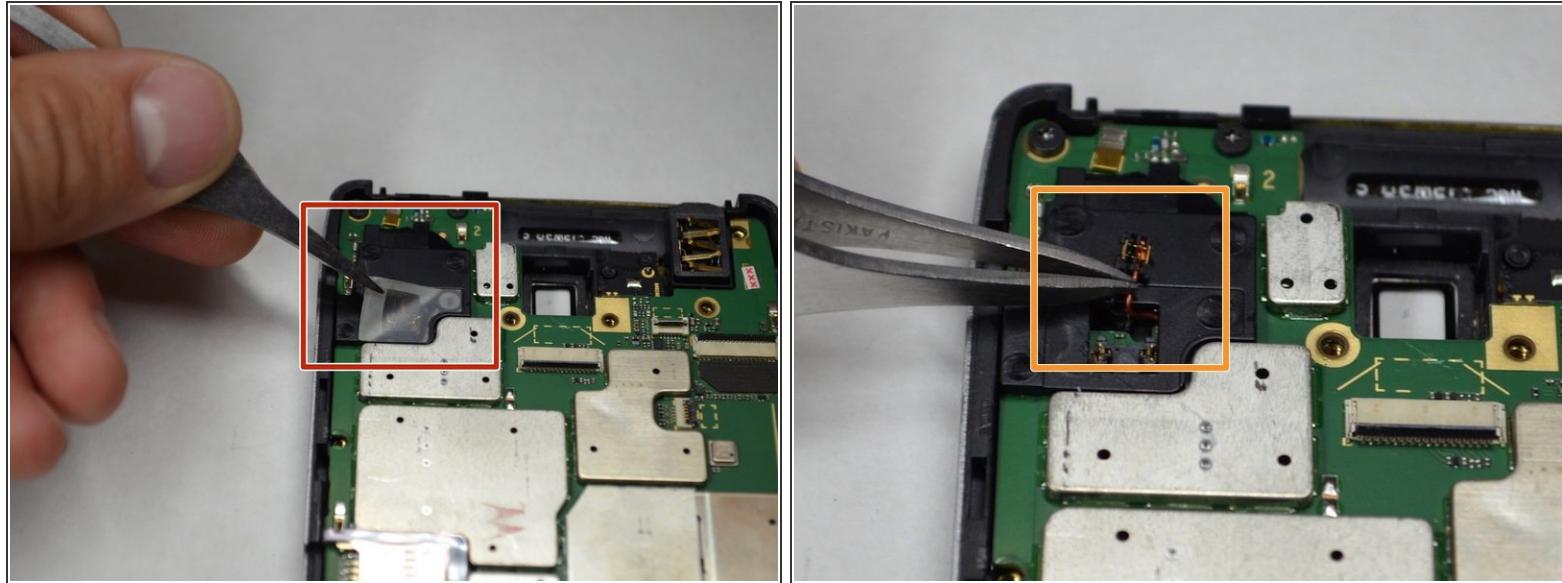
- Using a plastic opening tool or tweezers, disconnect the power button connector.
- Carefully peel back the adhesive cable with the tweezers so it is not in the way of the motherboard.

## Step 10



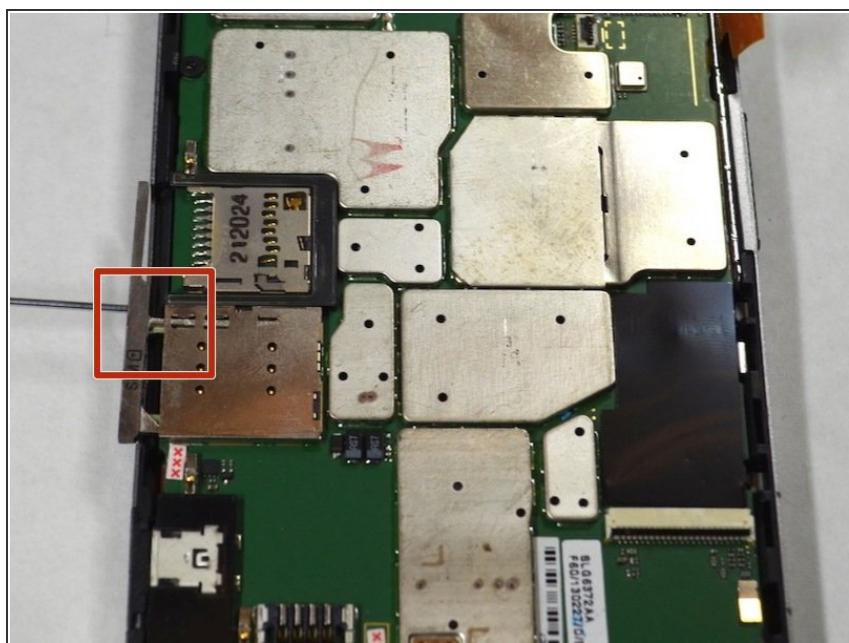
- Disconnect the battery from the motherboard by lifting up with the plastic opening tool near the base of the cable.
- Bend the battery cable straight up and out of the way of the motherboard.

## Step 11



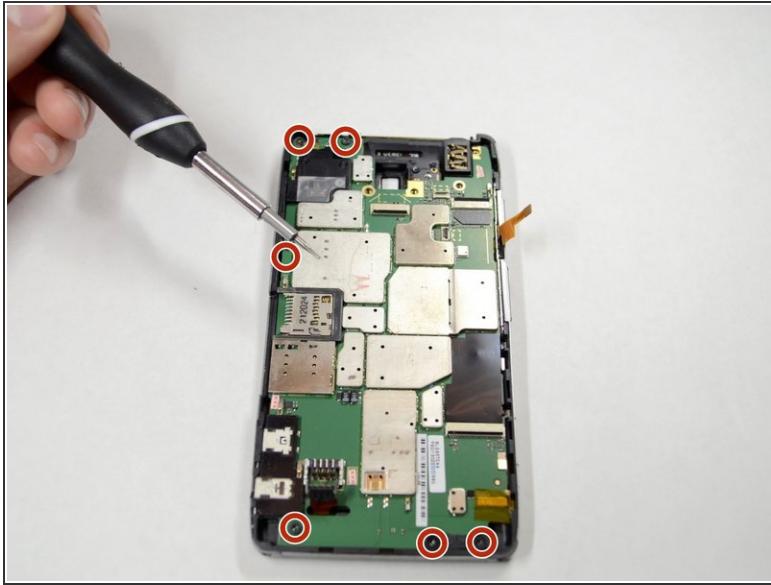
- Using tweezers, peel back the adhesive covering the speaker connector.
- Using tweezers, disconnect the speaker connector by lifting underneath the base of the connector.

## Step 12



- Locate the sim card/micro sd tray on the side of the device.
- Push a small rod, such as a paper clip or sim card tool, into the opening to eject and remove the tray.

## Step 13



- Remove the six 3.5mm Torx T4 screws securing the motherboard to the device frame.
- Carefully pry up the motherboard from the frame using a plastic opening tool.
- *(i)* Watch for obstructions such as loose cables.

To reassemble your device, follow these instructions in reverse order.